

FIG. 1

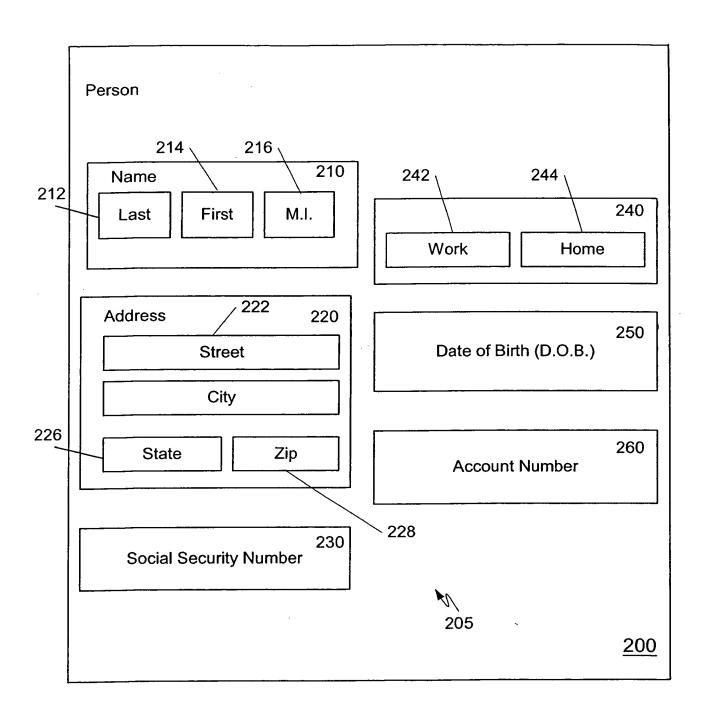


FIG. 2

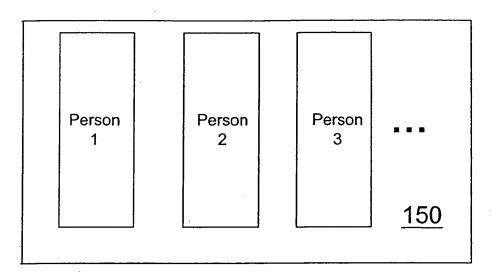


FIG. 3A

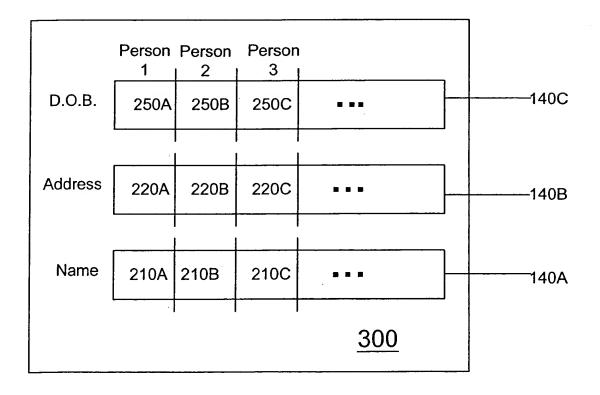
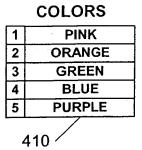


FIG. 3B





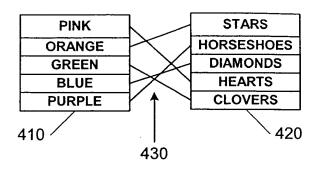


FIG. 4A

FIG. 4B



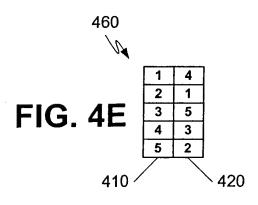
| HEARTS |
|------------|
| STARS |
| CLOVERS |
| DIAMONDS |
| HORSESHOES |
| |

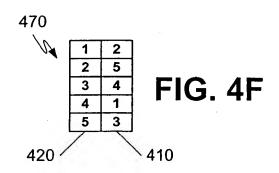
450

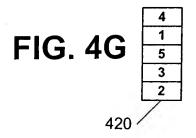
| PURPLE |
|--------|
| |
| BLUE |
| PINK |
| GREEN |
| |

FIG. 4C

FIG. 4D







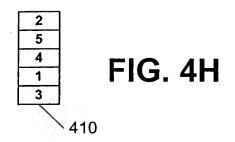


FIG. 5

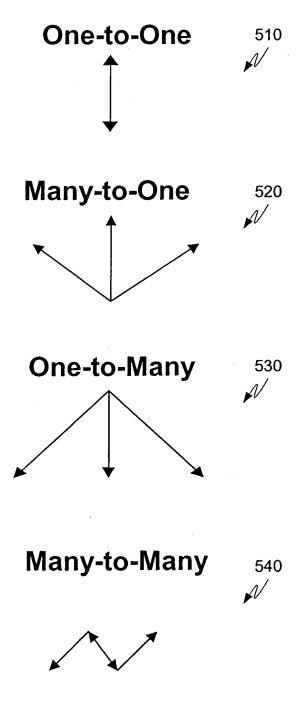


FIG. 6

MMX Files

| MMF | MMR |
|-----|-----|
| | |

| | _ | | |
|--|---|---|--|
| One to Many | | Many t | o One |
| 12 4 0 24 151 0 24 201 43 212 * 57 3 * 57 36 * 57 200 * 57 213 119 91 119 91 | | 3 4 36 91 151 200 201 212 213 | 57 * 12 57 * 119 57 * 24 0 57 * 24 0 43 57 * |
| 610 | | | 620 |

FIG. 7

MMX Files

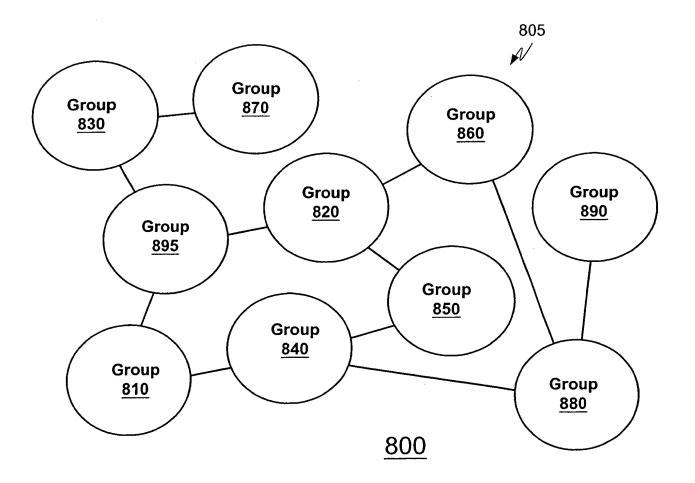
| | | | • |
|---|---|----|---|
| N | / | IV | н |
| | | | |

Many to Many' 38 + 38 + 38 + o 112 38 + o 112

MMR

| Many' | to Many |
|-------|---------|
| | |
| | |
| 21 | 8 * |
| | |
| | |
| + 38 | 8 * |
| + 38 | 35 |
| + 38 | 58 |
| + 38 | 112 0 |
| | |
| | |
| 70 | 36 |
| 71 | 112 o |
| | |
| 256 | 7 |
| | |
| | |
| 312 | 8 * |
| | |
| | |
| 316 | 113 |
| . 317 | 19 |
| | |
| | |
| | |
| | 720 |

FIG. 8



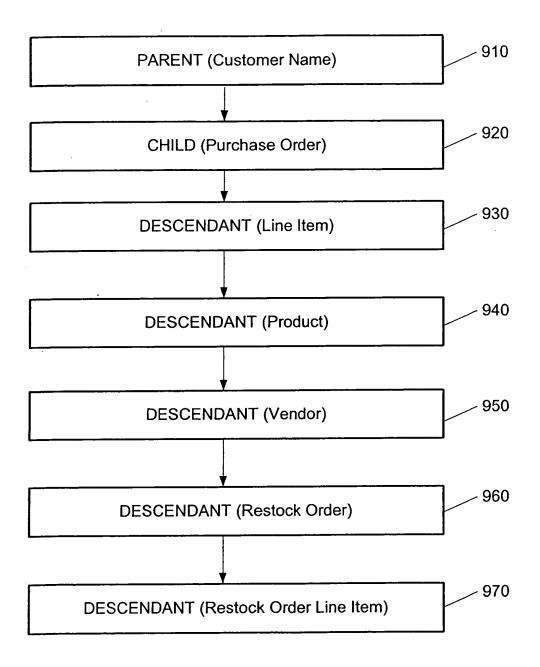
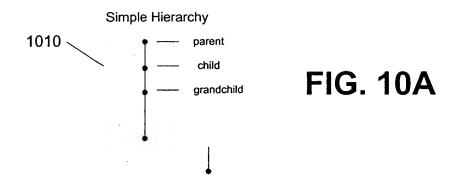
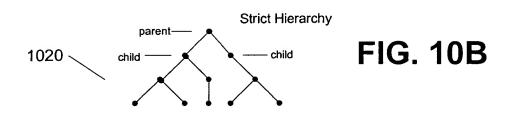
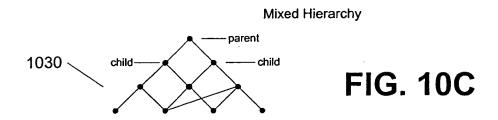


FIG. 9







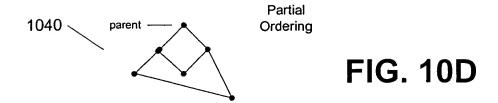
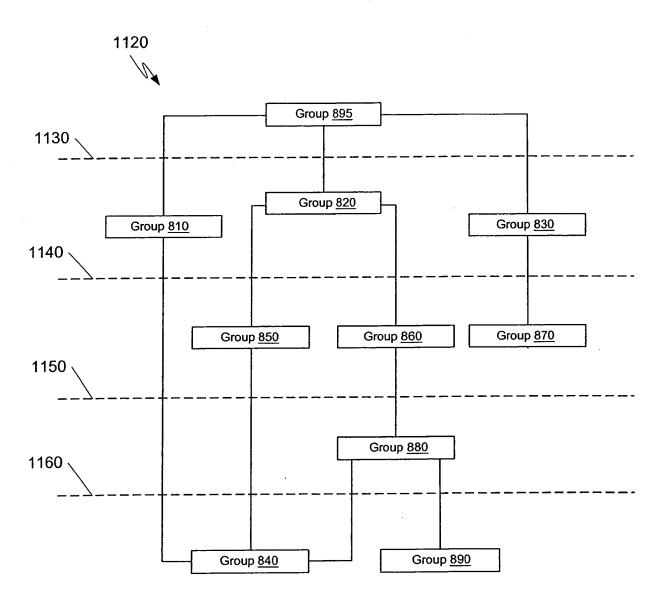
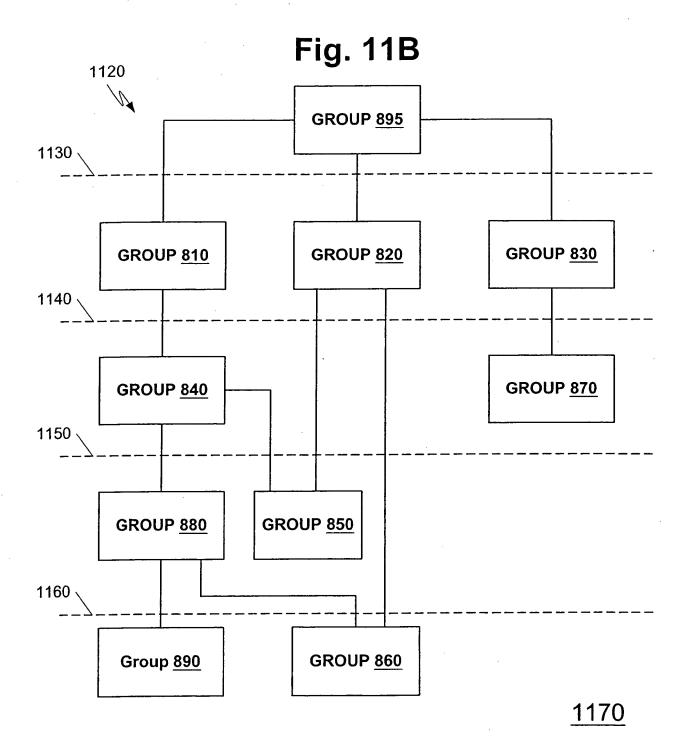
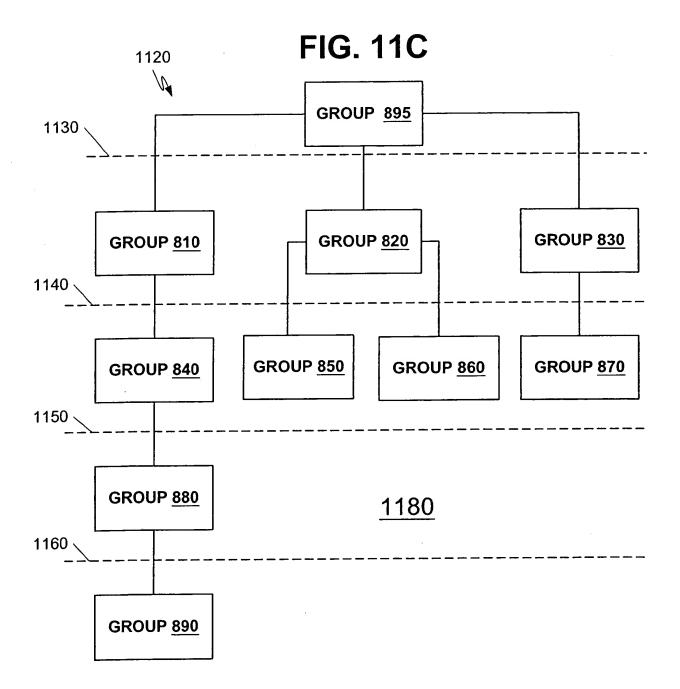


Fig.11A







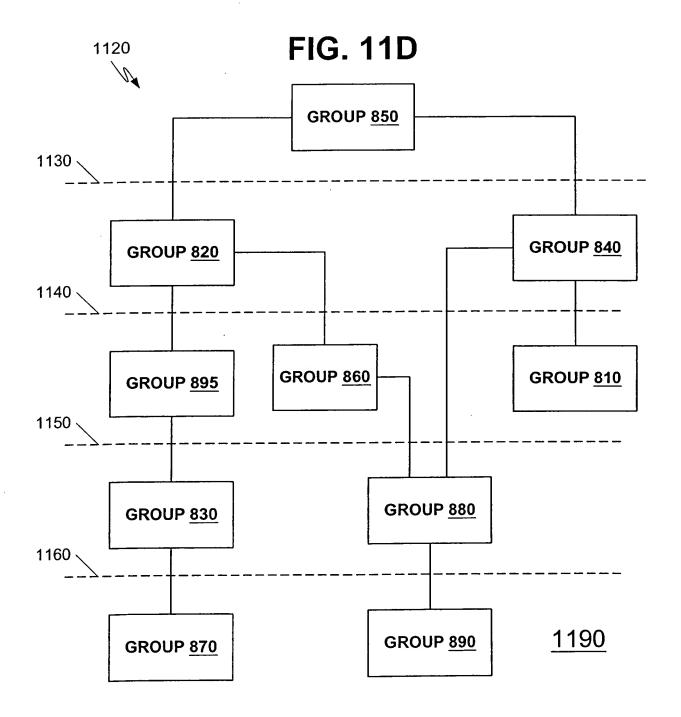


Fig. 12



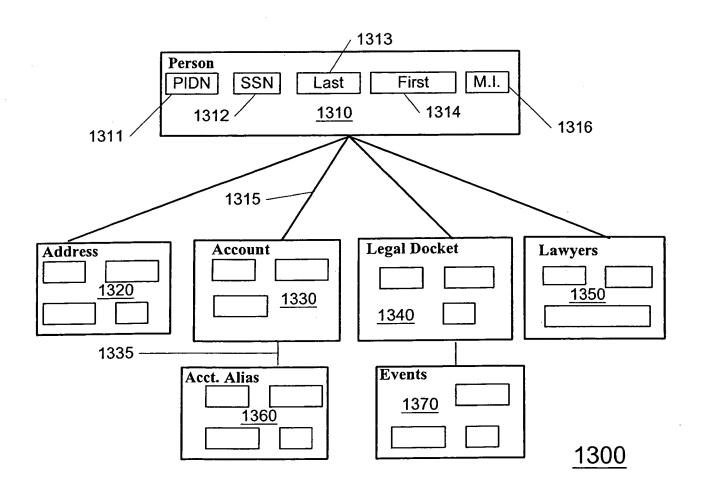


Fig. 13

FIG. 14

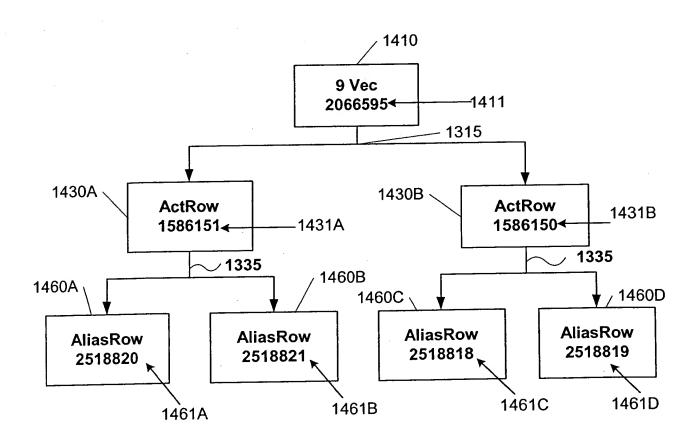
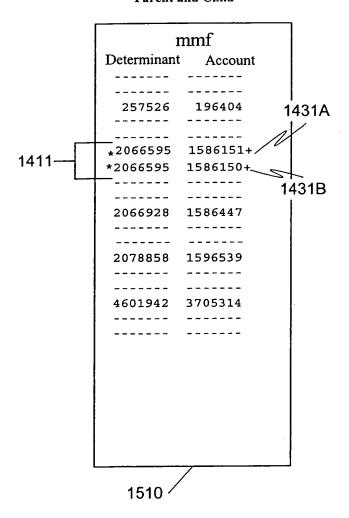


FIG. 15

Parent and Child



Child and Parent

| | ımr |
|----------|-------------|
| Account | Determinant |
| | |
| | |
| 196404 | 257526 |
| | |
| 1506150 | 20000000 |
| +1586150 | |
| +1586151 | 2066595* |
| | |
| 1586447 | 2066928 |
| 1300447 | 2000520 |
| | |
| 1596539 | 2078858 |
| | |
| · | |
| 3705314 | 4601942 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | 1520 |
| | |

FIG. 16

Child and Grandchild

mmf Account AcctAlias ----196404 285102 ----196405 2518818x +1586150 2518819x +1586150 2518819x 1461B

1586447

1586447

1596539

3705314

1431A-

2518821x-

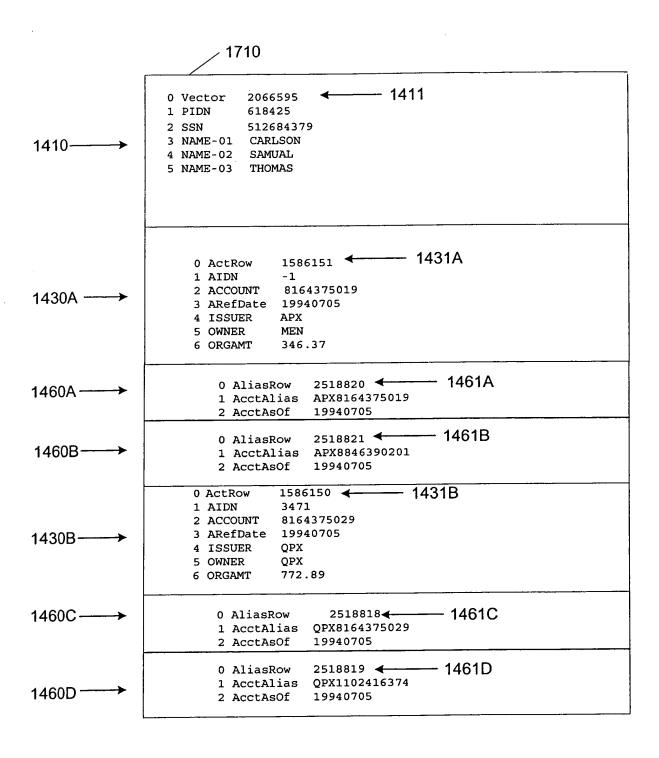
2519309 2519308

6050449

Grandchild and Child

| | mmr |
|----------------------|---------------------|
| AccAlias | Account |
| | |
| | |
| 285102 | |
| | |
| x2518818 | 1506150 |
| x2518818 x2518819 | |
| x2518820 | |
| x2518821 | 1586151+ |
| | |
| | |
| 2519308 | |
| 2519309 | 1586447 |
| | |
| | |
| | 1596539 |
| | |
| 5050440 | 200014 |
| 1 | 3705314 3705314 |
| 6050450 | 3703314 |
| | |
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| , | |
| ļ | |
| | |
| | |
| | ^{\\} 1620 |

1610



1700

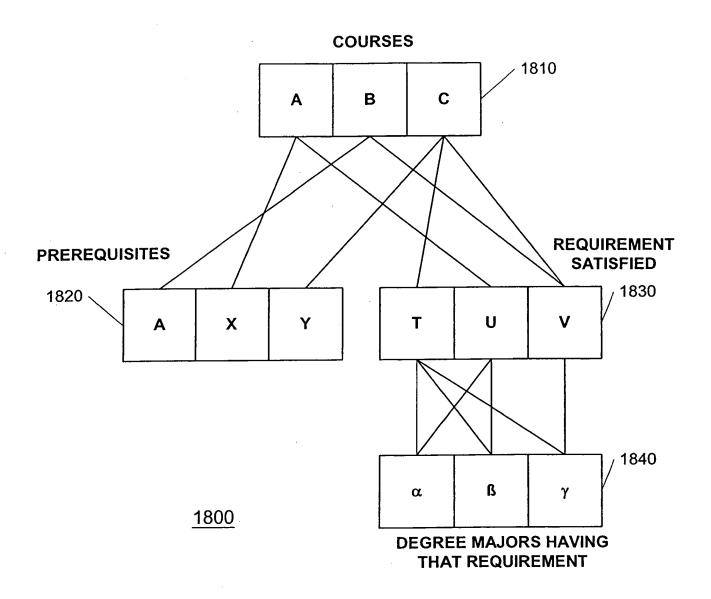


FIG. 18

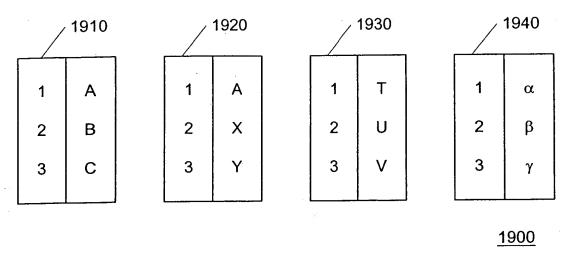


FIG. 19

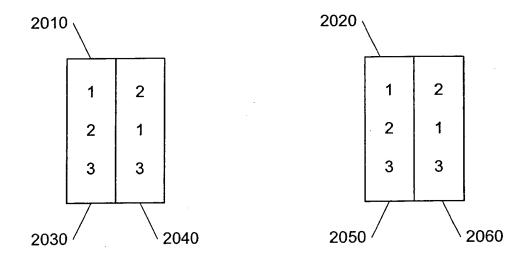
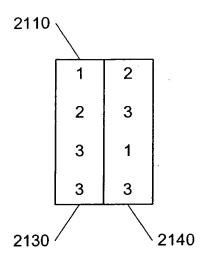


FIG. 20A

FIG. 20B



2120 1 3 2 1 3 2 3 3 2150 2160

FIG. 21A

FIG. 21B

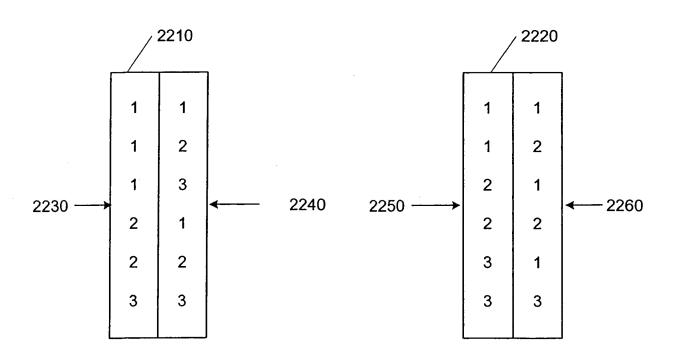


FIG. 22A

FIG. 22B

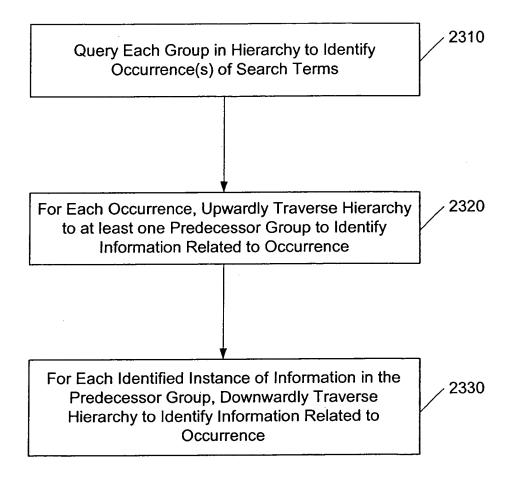


FIG. 23

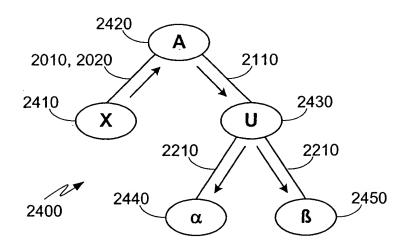


FIG. 24

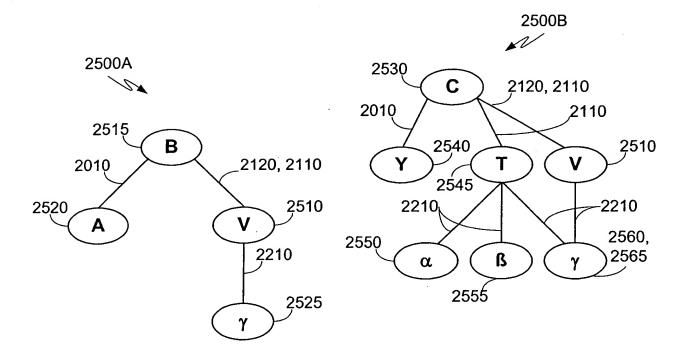


FIG. 25